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SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT EP-W-05-042

21 August 2013
20114-081-998-0850-49
DC No. A-6842

Ms. Martha Bosworth
U.S. EPA Region I - New England
Emergency Planning & Response Branch
5 Post Office Square, Suite 100
Mail Code OSRR07-2
Boston, Massachusetts 02109-3912

Subject: Case No. 43395; SDG No. A4B99
ChemTech Consulting Group (Chem)
Jard Company Inc
Bennington, Vermont
AROCOLOR: 18/Soil/A4C01-A4C18
(Field Duplicates A4C09/A4C18)
1/Aqueous Equipment Blank/A4B54
2/Soil PEs/A4B99, A4C00
CERCLIS No. VTD048141741
TDD No. 12-10-0008, Task No. 0850-49

Dear Ms. Bosworth:

A Tier II validation was performed on the organic analytical data for 18 soil samples and one aqueous equipment (rinsate) blank collected by WESTON START at the Jard Company Inc site in Bennington, Vermont, and for two PE samples obtained from EPA Region I. *Italicized sample ID numbers in the list above are associated with samples in this SDG, but reported in another SDG.* The samples were analyzed under CLP following SOW SOM01.2 as low/medium level for Aroclor compounds. The data were evaluated as Tier II level in accordance with the "Region I EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses" dated December 1996, and the USEPA CLP National Functional Guidelines for Superfund Organic Methods, and were based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues.
- * • Data Completeness.
- * • Preservation and Technical Holding Times.
- * • GC/MS and GC/ECD Instrument Performance Checks.
- IC and CC.
- * • Blanks.
- * • Surrogate Compounds.
- NA • IS.
- * • MS/MSD.
- * • Field Duplicates.
- NA • Sensitivity Check (MDL Study or LFB).

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- * • PE Samples/Accuracy Check.
- Target Compound Identification.
- * • Sample Quantitation and Reported Quantitation Limits.
- NA • TICs.
- * • SVOC and PEST/PCB Cleanup.
- * • System Performance.
- NA • SEDD/ADR.

* = No qualifications will be applied based on this parameter.

Table I summarizes overall evaluation of the data with reference to the DQO and potential usability issues. Qualified data are summarized in Data Summary Table 1.

Overall Evaluation of Data and Potential Usability Issues

See Table I for overall evaluation of data and potential usability issues.

Initial and Continuing Calibration

Compounds that did not meet RSD criteria in the IC, %D criteria in the CC, and/or RRF criteria in the IC or CC are summarized in the following tables:

AROCLORS:

Compound	CV 4/24/13
Aroclor-1016 (peak 1)	✕ (2)
Samples Affected:	A4C02-A4C18

Actions:

- ✕ = %RSD > 20 or %D > 15. Estimate (J) all positive results.
- (1) = Criteria failed on Column No. 1.
- (2) = Criteria failed on Column No. 2.

Sample results will be qualified as indicated above.

PE Samples/Accuracy Check

The criteria used by START for qualification of sample data based on the PE sample results are as follows:

PE Score	Action	
	Non-Detects	Positive Results
In Window	Accept	Accept
Warning Low/High	Accept	Accept
Action Low	Reject (R)	Estimate (J)
Action High	Accept	Estimate (J)
TCL Misses	Reject (R)	Varies
TCL Contaminants	Accept	Varies
TIC Misses	Varies	Varies
TIC Contaminants	Varies	Varies

All non-compliant PE scores were investigated by checking raw data, calculations, calibrations, possible matrix interferences, and blank contamination. Unless otherwise noted, all results reported by the laboratory were found to be correct, based on the data generated by the laboratory.

The laboratory properly identified and quantified the soil Aroclor-1242 PE sample (A4B99, PE No. ASX0181). No qualifications were applied.

The laboratory properly identified and quantified the soil Aroclor-1260 PE sample (A4C00, PE No. AS1508). No qualifications were applied.

Target Compound Identification

The dual column correlation did not meet %D confirmation criteria for the following Aroclor compounds:

Sample	Compound	% D	Action
A4C02	Aroclor-1242	73.9	J
A4C03	Aroclor-1242	40.9	J
A4C14	Aroclor-1242	44.3	J

Actions:

- J = Estimate results when %D >25 but <100 for pesticides or %D >25 but <500 for PCBs.
- R = Reject results when %D >100 for pesticides or %D >500 for PCBs.
- U = Qualify result as undetected at the CRQL when %D >100 for pesticides or %D >500 for PCBs, and both results are less than the CRQL.

Sample results have been qualified as indicated above.

Please contact the undersigned at (978) 552-2100 if you have any questions or need further information.

Very truly yours,

WESTON SOLUTIONS, INC.
Region I START



William W. Mahany
Principal Project Scientist



John Burton
Lead Chemist

email cc: Jennifer Feranda (CLP PO - Region II) - DV Letter w/Data Tables, and ORDA Form only –
Feranda.jennifer@epa.gov

Attachments: Table I: Overall Evaluation of Soil Data
Data Summary Key
Acronym List
Data Summary Table 1
DV Worksheets
PE Sample Score Reports (included in DV worksheets)
Field Sampling Notes (including a copy of sampler's COC Records)
CSF Audit (DC-2 Form) - Evidence Audit Photocopy (Including CSF Receipt/Transfer Form)
DQO Summary Form

S:\12100008\Analytical\Case_43395\A4C19\A4C19_val_doc

TABLE I

JARD COMPANY INC
Case No. 43395; SDG No. A4B99

Overall Evaluation of Soil Data

AROCLORS					
DQO (list all DQOs)	Sampling and/or Analytical Method Appropriate Yes or No	Measurement Error		Sampling Variability**	Potential Usability Issues
		Analytical Error	Sampling Error*		
1. To obtain sufficient data from surface and subsurface soil samples collected at the Jard Company site for PCB (Aroclor) analysis, to document potential source areas located on and off the property, and to document contamination in the soil and sediment associated with source areas located on the property.	<i>Analytical Method:</i> Yes, SOM01.2 <i>Sampling Method:</i> Yes, Hand Augers, and Stainless Steel Scoops.	Refer to qualifications in attached Data Summary Table 1. 1	Refer to qualifications in attached Data Summary Table 1.		1. Positive Aroclor 1242 results in samples A4C02, A4C03, and A4C14 were estimated (J) due to poor dual-column correlation.

* The evaluation of "sampling error" cannot be completely assessed in data validation.

** Sampling variability is not assessed in data validation.

ACRONYM LIST ORGANIC DATA VALIDATION

AQ	aqueous	SQL	Sample Quantitation Limit
AQ FB	aqueous field blank	S/S	soil/sediment
BB	Bottle Blank	S/S (m)	soil/sediment medium level
B/N	base/neutral compound	START	Superfund Technical Assessment and Response Team
°C	degrees Celsius		
CC	Continuing Calibration	SVOC	semivolatile organic compound
CCV	Continuing Calibration Verification	SW	surface water
CLP	Contract Laboratory Program	TB	Trip Blank
COC	Chain-of-Custody record	TCL	Target Compound List
COR	Contracting Officer Representative	TDD	Technical Direction Document
CRQL	Contract Required Quantitation Limit	TIC	Tentatively Identified Compound
CSF	Complete SDG File	TR	Traffic Report
%D	percent difference	VOC	volatile organic compound
DAS	Delivery of Analytical Services	WESTON	Weston Solutions, Inc.
DMC	Deuterated Monitoring Compound		
DQO	Data Quality Objective		
DV	Data Validation		
DW	drinking water		
EB	Equipment Blank		
EPA	Environmental Protection Agency		
GC/ECD	Gas Chromatograph/Electron Capture Detector		
GC/MS	Gas Chromatograph/Mass Spectrometry		
GW	groundwater		
IC	Initial Calibration		
IS	Internal Standard		
kg	kilogram		
L	liter		
LCS	Laboratory Control Sample		
LFB	Laboratory Fortified Blank		
MDL	Method Detection Limit		
µg	microgram		
MS	Matrix Spike		
MSD	Matrix Spike Duplicate		
NA	Not Applicable		
ND	non-detected result		
ng	nanogram		
NERL	New England Regional Laboratory		
OSC	On-Scene Coordinator		
ORDA	Organic Regional Data Assessment		
PAH	polynuclear aromatic hydrocarbon		
PCB	polychlorinated biphenyl compound		
PEST/PCB	pesticide/polychlorinated biphenyl compound		
PE	Performance Evaluation		
Pos	positive result		
QC	Quality Control		
%R	percent recovery		
RPD	Relative Percent Difference		
RRF	Relative Response Factor		
RSD	Relative Standard Deviation		
SDG	Sample Delivery Group		
SOW	Statement of Work		

DATA SUMMARY KEY ORGANIC DATA VALIDATION

- J = The associated numerical value is an estimated quantity.
- R = The data are unusable (compound may or may not be present). Resampling and reanalysis are necessary for verification. The R replaces the numerical value or SQL.
- U = The compound was analyzed for, but not detected. The associated numerical value is the SQL or the adjusted SQL.
- UJ = The compound was analyzed for, but not detected. The associated numerical value is the estimated SQL.
- EB = The compound was identified in an aqueous EB that was used to assess field contamination associated with soil/sediment samples.
- TB = The compound was identified in an aqueous TB that was used to assess field contamination associated with soil/sediment samples.
- BB = The compound was identified in an aqueous BB that was used to assess field contamination associated with soil/sediment samples.

SITE: JARD COMPANY INC
CASE: 43395 SDG: A4B99
LABORATORY: CHEMTECH
CONSULTING GROUP

DATA SUMMARY TABLE 1
AROCOR IN SOIL ANALYSIS
µg/Kg

SAMPLE NUMBER			A4C01	A4C02	A4C03	A4C04	A4C05	A4C06	A4C07
SAMPLE LOCATION			SD-49	SD-44	SD-42	SD-41	SD-39	SD-36	SD-32
STATION LOCATION			JCS-555	JCS-548	JCS-545	JCS-544	JCS-542	JCS-538	JCS-534
LABORATORY NUMBER			E1924-03	E1924-04	E1924-05	E1924-06	E1924-07	E1924-08	E1924-09
COMPOUND	MDL	CRQL							
Aroclor-1016	1.8	33	54 U	46 U	59 U	42 U	88 U	58 U	50 U
Aroclor-1221	5.4	33	54 U	46 U	59 U	42 U	88 U	58 U	50 U
Aroclor-1232	0.9	33	54 U	46 U	59 U	42 U	88 U	58 U	50 U
Aroclor-1242	4.3	33	320	400 J	310 J	250	98	100	470
Aroclor-1248	1.9	33	54 U	46 U	59 U	42 U	88 U	58 U	50 U
Aroclor-1254	2.2	33	54 U	46 U	59 U	42 U	88 U	58 U	50 U
Aroclor-1260	2.2	33	54 U	46 U	59 U	42 U	88 U	58 U	50 U
Aroclor-1262	9.8	33	54 U	46 U	59 U	42 U	88 U	58 U	50 U
Aroclor-1268	4.6	33	54 U	46 U	59 U	42 U	88 U	58 U	50 U
DILUTION FACTOR			1.0	1.0	1.0	1.0	1.0	1.0	1.0
DATE SAMPLED			4/16/2013	4/16/2013	4/16/2013	4/16/2013	4/16/2013	4/16/2013	4/16/2013
DATE EXTRACTED			4/22/2013	4/22/2013	4/22/2013	4/22/2013	4/22/2013	4/22/2013	4/22/2013
DATE ANALYZED			4/23/2013	4/24/2013	4/24/2013	4/24/2013	4/24/2013	4/24/2013	4/24/2013
SAMPLE WEIGHT (GRAMS)			30.0	30.1	30.0	30.0	30.1	30.0	30.1
% SOLID			61.4	71.4	55.9	78.0	37.2	56.9	66.1

NOTES: µg/Kg = micrograms per Kilogram
All results are reported on a Dry Weight Basis.
CRQL = Contract Required Quantitation Limit
MDL = Method Detection Limit
U = Value is Non-Detected.
UJ = Value is Non-Detected, and Detection Limit is Estimated.
J = Value is Estimated.
R = Value is Rejected.
* = Reported value is from diluted analysis.

SITE: JARD COMPANY INC
CASE: 43395 SDG: A4B99
LABORATORY: CHEMTECH
CONSULTING GROUP

DATA SUMMARY TABLE 1
AROCOR IN SOIL ANALYSIS
µg/Kg

SAMPLE NUMBER			A4C08	A4C09	A4C10	A4C11	A4C12	A4C13	A4C14
SAMPLE LOCATION			SD-31	SD-47	SD-46	SD-19	SD-22	SD-23	SD-25
STATION LOCATION			JCS-532	JCS-551	JCS-550	JCS-510	JCS-515	JCS-516	JCS-516
LABORATORY NUMBER			E1924-10	E1924-11	E1924-12	E1924-13	E1924-14	E1924-15	E1924-16
COMPOUND	MDL	CRQL							
Aroclor-1016	1.8	33	42 U	47 U	40 U	52 U	56 U	55 U	43 U
Aroclor-1221	5.4	33	42 U	47 U	40 U	52 U	56 U	55 U	43 U
Aroclor-1232	0.9	33	42 U	47 U	40 U	52 U	56 U	55 U	43 U
Aroclor-1242	4.3	33	230	87	220	30 J	160	130	140 J
Aroclor-1248	1.9	33	42 U	47 U	40 U	52 U	56 U	55 U	43 U
Aroclor-1254	2.2	33	42 U	47 U	40 U	52 U	56 U	55 U	43 U
Aroclor-1260	2.2	33	42 U	47 U	40 U	52 U	56 U	55 U	43 U
Aroclor-1262	9.8	33	42 U	47 U	40 U	52 U	56 U	55 U	43 U
Aroclor-1268	4.6	33	42 U	47 U	40 U	52 U	56 U	55 U	43 U
DILUTION FACTOR			1.0	1.0	1.0	1.0	1.0	1.0	1.0
DATE SAMPLED			4/16/2013	4/16/2013	4/16/2013	4/16/2013	4/16/2013	4/16/2013	4/16/2013
DATE EXTRACTED			4/22/2013	4/22/2013	4/22/2013	4/22/2013	4/22/2013	4/22/2013	4/22/2013
DATE ANALYZED			4/24/2013	4/24/2013	4/24/2013	4/24/2013	4/24/2013	4/24/2013	4/24/2013
SAMPLE WEIGHT (GRAMS)			30.1	30.0	30.0	30.1	30.1	30.1	30.0
% SOLID			77.8	70.0	83.3	63.3	58.4	59.5	77.0

NOTES: µg/Kg = micrograms per Kilogram
All results are reported on a Dry Weight Basis.
CRQL = Contract Required Quantitation Limit
MDL = Method Detection Limit
U = Value is Non-Detected.
UJ = Value is Non-Detected, and Detection Limit is Estimated.
J = Value is Estimated.
R = Value is Rejected.
* = Reported value is from diluted analysis.

SITE: JARD COMPANY INC
CASE: 43395 SDG: A4B99
LABORATORY: CHEMTECH
CONSULTING GROUP

DATA SUMMARY TABLE 1
AROCOR IN SOIL ANALYSIS
µg/Kg

SAMPLE NUMBER			A4C15	A4C16	A4C17	A4C18		
SAMPLE LOCATION			SD-28	SD-29	SD-20	SD-100		
STATION LOCATION			JCS-526	JCS-529	JCS-512	JCS-580		
LABORATORY NUMBER			E1925-17	E1925-20	E1925-21	E1925-22		
COMPOUND	MDL	CRQL						
Aroclor-1016	1.8	33	64 U	45 U	47 U	47 U		
Aroclor-1221	5.4	33	64 U	45 U	47 U	47 U		
Aroclor-1232	0.9	33	64 U	45 U	47 U	47 U		
Aroclor-1242	4.3	33	64 U	45 U	47 U	37 J		
Aroclor-1248	1.9	33	64 U	45 U	47 U	47 U		
Aroclor-1254	2.2	33	64 U	45 U	47 U	47 U		
Aroclor-1260	2.2	33	64 U	45 U	47 U	47 U		
Aroclor-1262	9.8	33	64 U	45 U	47 U	47 U		
Aroclor-1268	4.6	33	64 U	45 U	47 U	47 U		
DILUTION FACTOR			1.0	1.0	1.0	1.0		
DATE SAMPLED			4/16/2013	4/16/2013	4/16/2013	4/16/2013		
DATE EXTRACTED			4/22/2013	4/22/2013	4/22/2013	4/22/2013		
DATE ANALYZED			4/24/2013	4/24/2013	4/24/2013	4/24/2013		
SAMPLE WEIGHT (GRAMS)			30.0	30.0	30.1	30.0		
% SOLID			51.1	73.3	70.4	70.1		

NOTES: µg/Kg = micrograms per Kilogram
All results are reported on a Dry Weight Basis.
CRQL = Contract Required Quantitation Limit
MDL = Method Detection Limit
U = Value is Non-Detected.
UJ = Value is Non-Detected, and Detection Limit is Estimated.
J = Value is Estimated.
R = Value is Rejected.
* = Reported value is from diluted analysis.

REGION I, EPA-NE ORGANIC REGIONAL DATA ASSESSMENT (ORDA)*

Case No.: 43395

Site Name: JARD Company

SDG No.: A4B99

No. of Samples/Matrix: 20/soil/sediment

Lab Name: Chemtech Consulting

Validation Contract WESTON

SOW#/Contract#: SOM01.2

Validator's Name: J. Burton

EPA-NE DV Tier Level: Tier II

Date DP Rec'd by EPA-NE: 5/16/13

TPO/PO: **ACTION _____ FYI ✓

DV Completion Date: 5/24/13

ANALYTICAL DATA QUALITY SUMMARY

1. Preservation and Contractual Holding Times:
2. GC/MS / GC/ECD Instrument Performance Check:
3. Initial Calibration:
4. Continuing Calibration:
5. Blanks:
6. DMCs or Surrogate Compounds:
7. Internal Standards:
8. Matrix Spike/Matrix Spike Duplicate:
9. Sensitivity Check:
10. PE samples - Accuracy Check:
11. Target Compound Identification:
12. Compound Quantitation and Reported QLs:
13. Tentatively Identified Compounds:
14. Semivolatile Cleanup/Pesticide/PCB Cleanup:
15. Data Completeness:
16. Overall Evaluation of Data:

VOC	SVOC	PEST	ARO
NA	NA	NA	○
		NA	NA
			○
NA	NA		
NA		NA	NA
			○

o = Data had no problems or were qualified due to minor contractual problems.

m = Data were qualified due to major contractual problems.

z = Data were rejected as unusable due to major contractual problems.

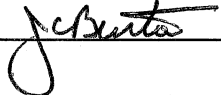
Action Items (z items):

Areas of Concern (m items):

Comments:

*This form assesses the analytical data quality in items of contractual compliance only. It does not assess sampling errors and/or non-contractual analytical issues that affect data quality.

** Check "ACTION" only if contractual defects resulted in reduced payment/data rejection recommendations.

Validator: 

Date: 5/24/13

REGION I ORGANIC DATA VALIDATION

The following data package has been validated:

Lab Name: Chemtech Consulting SOW #/Contract #: SOM01.2
Case No.: 43395 Sampling Dates: 4/16-4/17/13
SDG No.: A4B99 Shipping Dates: 4/18/13
No. of Samples/Matrix: _____ Date Rec'd by Lab: 4/19/13

Traffic Report Sample Nos: A4C01 - A4C18

Trip Blank No.: _____
Equipment Blank No: A4B54
Field Duplicate Nos: A4C09, A4C18
PE Nos: A4B99, A4C00

The Region I, EPA - NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, revision 12/96 was used to evaluate the data and/or approved modifications to the EPA - NE Functional Guidelines were used to evaluate the data and are attached to this cover page: (attached modified criteria from EPA approved QAPjP or amendment to the QAPjP).

A Tier II or a Tier III evaluation was used to validate the data. If a Tier II validation with a partial Tier III was used, then identify samples, parameters, etc. that received partial Tier III validation:

The data were evaluated based upon the following parameters:

- Overall Evaluation of Data
- Data Completeness (CSF Audit - Tier I)
- Preservation and Technical Holding Times
- GC/MS and GC/ECD Instrument Performance Check
- Initial and Continuing Calibrations
- Blanks
- Surrogate Compounds
- Internal Standards
- Matrix Spike/Matrix Spike Duplicate
- Field Duplicates
- Sensitivity Check
- PE Samples/Accuracy Check
- Target Compound Identification
- Compound Quantitation and Reported Quantitation Limits
- TICs
- Semivolatile and Pesticide/PCB Cleanup
- System Performance

Region I Definitions and Qualifiers:

A - Acceptable Data
J - Numerical value associated with compound is an estimated quantity.
R - The data are rejected as unusable. The R replaces the numerical value or sample quantitation limit.
U - Compound not detected at that numerical sample quantitation limit.
UJ - The sample quantitation limit is an estimated quantity.
TB, EB - Compound detected in aqueous trip blank or aqueous equipment blank associated with soil/sediment samples.

Validator's Name: John Burton Company Name: WESTON Phone Number: 978-552-2100
Date Validation Started: 5/22/13 Date Validation Completed: ~~5/25/13~~ 5/24/13

Check if all criteria are met and no hard copy worksheet provided. Indicate NA if worksheet is not applicable to analytical method. Note: There is no standard worksheet for System Performance, however, the validator must document all system performance issues in the Data Validation Memorandum.

VOA/SV Worksheets:

VOA/SV-Pest/PCB	COMPLETE SDG FILE (CSF) AUDIT	
VOA/SV-Pest/PCB-I	PRESERVATION AND HOLDING TIMES	@
VOA/SV-II	GC/MS INSTRUMENT PERFORMANCE CHECK (TUNING)	
VOA/SV-III	INITIAL CALIBRATION	
VOA/SV-IV	CONTINUING CALIBRATION	
VOA/SV-Pest/PCB-V-A	BLANK ANALYSIS	
VOA/SV-Pest/PCB-V-B	BLANK ANALYSIS	
VOA-VI	VOA SURROGATE SPIKE RECOVERIES	
SV-VI	SV SURROGATE SPIKE RECOVERIES	
VOA/SV-VII	INTERNAL STANDARD PERFORMANCE	
VOA/SV-Pest/PCB-VIII	MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
VOA/SV-Pest/PCB-IX	FIELD DUPLICATE PRECISION	
VOA/SV-Pest/PCB-X	SENSITIVITY CHECK	NA
VOA/SV-Pest/PCB-XI	ACCURACY CHECK/ PE SCORE SHEETS	@
VOA/SV-Pest/PCB-XII	TARGET COMPOUND IDENTIFICATION	NA
VOA/SV-Pest/PCB-XIII	SAMPLE QUANTITATION	
VOA/SV-XIV	TENTATIVELY IDENTIFIED COMPOUNDS	
VOA/SV-XV	SEMIVOLATILE CLEANUP	
TABLE II - WORKSHEET	OVERALL EVALUATION OF DATA	*

Pest/ARO Worksheets:

VOA/SV-Pest/PCB	COMPLETE SDG FILE (CSF) AUDIT	
VOA/SV-Pest/PCB-I	PRESERVATION AND HOLDING TIMES	@
Pest/PCB-IIA	GC/ECD INSTRUMENT PERFORMANCE CHECK- RESOLUTION	NA
Pest/PCB-IIB	GC/ECD INSTRUMENT PERFORMANCE CHECK- RETENTION TIMES	NA ✓
Pest/PCB-IIC	GC/ECD INSTRUMENT PERFORMANCE CHECK- ACCURACY CHECK OF INITIAL CALIBRATION	✓
Pest/PCB-IID	GC/ECD INSTRUMENT PERFORMANCE CHECK- PESTICIDE DEGRADATION	NA
Pest/PCB-III	INITIAL CALIBRATION	✓
Pest/PCB-IV	CONTINUING CALIBRATION	
VOA/SV-Pest/PCB-V-A	BLANK ANALYSIS	
VOA/SV-Pest/PCB-V-B	BLANK ANALYSIS	
Pest/PCB-VI	SURROGATE COMPOUNDS: SPIKE RECOVERIES AND RETENTION TIME SHIFT	✓
Pest/PCB-VII	PESTICIDE CLEANUP	NA
VOA/SV-Pest/PCB-VIII	MATRIX SPIKE/MATRIX SPIKE DUPLICATE	✓
VOA/SV-Pest/PCB-IX	FIELD DUPLICATE PRECISION	✓
VOA/SV-Pest/PCB-X	SENSITIVITY CHECK	NA
VOA/SV-Pest/PCB-XI	ACCURACY CHECK/ PE SCORE SHEETS	@
Pest/PCB-XII	COMPOUND IDENTIFICATION	
VOA/SV-Pest/PCB-XIII	SAMPLE QUANTITATION	
TABLE II - WORKSHEET	OVERALL EVALUATION OF DATA	*

@ - always included

* - See DV Memo

I certify that all criteria were met for the worksheets checked above.

Signature: John BurtonName: John BurtonDate: 5/24/13

COMPLETE SDG FILE (CSF) AUDIT

Organic Fractions: A4B99 (Aroclors)

Missing Information

Date Lab Contacted

Date Received

None

Validator: 

Date: 5/24/13

Sampler: G. Hornok

Company: WESTON

Contacted: Yes No Date: _____

1. PRESERVATION AND HOLDING TIMES

Circle sample numbers with exceeded technical holding times or omitted preservation.
List all required preservation codes and circle omitted preservation codes.
Circle all exceeded technical holding times.
Identify extraction technique after "# of Days"/*(Extraction Code).

Cooler Temp 5, 6, 5 Documented: Page: 334-336

Sample No. (TR No.)	Matrix	Pres. Code	Date Sampled	PEST						ARO					
				Date Extracted	# of Days from Samp. to Ext.	*Ext. Code	Date Analyzed	# of Days from Ext. to Anal.	Action	Date Extracted	# of Days from Samp. to Ext.	*Ext. Code	Date Analyzed	# of Days from Ext. to Anal.	Action
A4C01	S/S	1, 3	4/16/13	↖						4/22/13	6	SOX	4/23/13	1	none
A4C02															
A4C03															
A4C04															
A4C05															
A4C06															
A4C07															
A4C08															
A4C09															
A4C10															
A4C11															
A4C12															
A4C13															
A4C14															
A4C15															
A4C16															
A4C17															
A4C18															
A4B99	PE		4/19/13										4/23/13	1	
A4C00	L														

Preservation Code:

1. Cool @ 4°C (± 2°C)
2. Preserve with HCl to ≤ pH 2.
3. Protect from light.
4. Freeze.
5. Room temperature (avoid excessive heat).
6. Encore sampler (48 hour hold time).

*Extraction Code:

L/L - Liquid/Liquid
SON - Sonication
SEP - Separatory funnel
SOX - Soxhlet
SPE - Solid Phase Extraction

Action Code:

J - Estimate (J) detected values.
UJ - Estimate (UJ) non-detected values.
R - Reject (R) non-detected values.

Matrix Codes:

AQ - Aqueous
S/S - Soil/Sediment
AQ FB - Aqueous Field Blank

Validator: J. Benton

Date: 5/22/13

EPA-NE - Data Validation Worksheet
VOA/SV - Pest/ARO - V

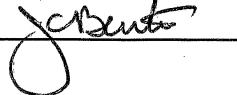
V. Rinsate Blank Tabulation - list the applicable rinsate (equipment) blanks below:

Rinsate Blank No.	Sample No.	Equipment Rinsed to Generate the RB	Matrix Applies to:
RB- 30	A4B54	Hand Auger Metal Scoop	SD
RB-			
RB-			
RB-			
RB-			
RB-			

Matrix Codes: SS - surface soil
SD - sediment
SO - source soil
SB - soil boring
GW - groundwater
DW - drinking water
SW - surface water

Note: Apply each RB only to the matrix to which it corresponds. For example, apply the hand auger RB to the soil samples, but not to the surface water samples.

If more than one hand auger/soil sample RB was collected, the RBs may be batched and the highest hit from the batch used to determine the action levels. However, if one RB exhibits an unusual amount of contamination, apply this RB to only the associated samples. Do not batch this RB and apply to all samples of the same matrix.

Validator: 

Date: 5/24/13

Contacted: Yes (No

Date:

Sampler: G. Hornok

Company: WESTON

[illegible]

Validator: W. Berto

Date: 5/23/13

PEST Instrument Blanks: If not present on both columns, then not a positive and therefore not a contaminant.

Do not use blanks used to clean the instrument after a contaminated sample to set Action Levels.

V. BLANK ANALYSIS - list the blank contamination found in the field blanks.

Date: _____

From SAG A4B16

[illegible]

Date: 5/23/13

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3. Blank Actions:

3. Blank Actions: **Actions Apply to Soil/Sediment (S/S) or Solid Samples**

Applicable Lab Blanks Include:

MB - Method Blanks
HB - Holding Blanks
IB - Instrument Blanks
SB - Storage Blanks
CUB- Cleanup Blank

Equip - Equipment Blank (rinsate)
Trip - Trip Blank
NaHSO₄ - Sodium Bisulfate
MeOH - Methanol

Comments:

Validator:

Date: 5/23/13

* - Circle one

* - Circle one

XI. ACCURACY CHECK (Performance Evaluation Results) - List all analytes that are outside criteria.

SDG No.: A4B99

Case: 43395

Are more than one-half the PE analytes within criteria for each parameter?


Yes

No

Always submit this sheet and attach PE score sheets

[illegible]

*For Region I PE indicate the Region I PE Score report result: Action High, Action Low, TCL Miss, or TCL Contaminant.

Validator: 

Date: 5/23/13

EPA - NE - Data Validation Worksheet
VOA/SV - Pest/PCB - XIII

XIII. SAMPLE QUANTITATION

If no PE, do sample calculation.

Recalculate, from the raw data, the concentration for one positive detect and one reported sample quantitation limit (SQL) for a non-detect in a diluted sample or soil sample per fraction. (Note: Although Section XIII, C 2. a. requires that one calculation for each fraction in each sample be performed, the validator is only required to reproduce an example, for each fraction, of one positive detect and one SQL calculation on this worksheet.)

Fraction		Calculation*	
VOC Sample No.: Reported Compound: Reported Value: Non-detected Compound: Reported Quantitation Limit:		Detect:	Non-detect QL:
SVOC Sample No.: Reported Compound: Reported Value: Non-detected Compound: Reported Quantitation Limit:		Detect:	Non-detect QL:
P/PCB Sample No.: A4C01 Reported Compound: 1242 Reported Value: 320 Non-detected Compound: 1260 Reported Quantitation Limit: 540		Detect: $\frac{(A_v)(V_t)(DF)(GPC)}{(CF)(V_i)(W_s)(D)} \rightarrow \text{over}$ $\frac{1242 \times 1000 \times 1}{30 \times 100 \times 100} = 414$	Non-detect QL: $33 \times \frac{(W_s)(U_L)(DF)}{(W_s)(V_L)(D)}$ $33 \times \frac{(30)(1000)(1)}{(30)(10,000)(\frac{100-38.6}{100})}$ $= 54 \checkmark$

* - NA for Tier II if PE score is OK.

Do all soil/sediment samples have % solids greater than 30% Y N If solids <30%, have sample volumes been increased sufficiently to compensate? Y N
If no. list sample numbers _____

Validator: jcanta

Date: 5/23/13

93117
1114572
818010
423003

783844
1747423
666836
1125786

$$\frac{(93117)(10000)(1)(1)}{(783844)(1)(30)(\frac{100-38.6}{100})} = \frac{64.49}{.32.2}$$

$$\frac{(1114572)(10000)(1)(1)}{(1747423)(1)(30)(\frac{100-38.6}{100})} = 346.3$$

$$\frac{(818010)(10000)(1)(1)}{(666836)(1)(30)(\frac{100-38.6}{100})} = 665.9$$

$$\frac{(423003)(10000)(1)(1)}{(1125786)(1)(30)(\frac{100-38.6}{100})} = 203.98$$

$$= 320.2 = 320.$$

80.1/714

44002

1 157075 783844
2 1615468 1747423
4 980835 666836

$$\frac{(157075)(10000)(1)(1)}{(783844)(1)(30.1)(.714)} = 93.24$$

$$\frac{1615468 * 10000}{1747423 * 30.1 * .714} = 430.17 \quad \text{Avg} = 403 = 400$$

$$\frac{980835 * 10000}{666836 * 30.1 * .714} = 694.40$$

Continuing Calibration - PEM, INDC

[illegible]

Estimate (J) all positive results when the %D >25% Pest, or $\geq 15\%$ PCB. No qualification is required for non-detected results.

J. C. Benton

Date:

5723/13

Site Name: JARD Company
Page 1 of 1

ok

Actions:

- Validator: J. Buntar

Date: 5/23/13

- 1520 hrs: Surface soil sample P001-SS-08A (Sample #: JCS-501) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P001 at surface soil sample location P001-SS-08, located on the southern bank of the stream, 50 feet east of P001-SS-07, and later submitted for PCB field screening analysis.
- 1530 hrs: Surface soil sample P001-SS-01A (Sample #: JCS-481) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P001 at surface soil sample location P001-SS-01, located directly adjacent to the residence beneath the former location of a recently demolished deck, and later submitted for PCB field screening analysis.
- 1535 hrs: Surface soil sample P001-SS-08B (Sample #: JCS-502) was collected with a hand auger at a depth of 6 to 10 inches bgs from surface soil sample location P001-SS-08 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected for surface soil sample location P001-SS-08 due to refusal.
- 1540 hrs: Surface soil sample P001-SS-01B (Sample #: JCS-482) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P001-SS-01 (see above) and later submitted for PCB field screening analysis.
- 1550 hrs: Surface soil sample P001-SS-01C (Sample #: JCS-483) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P001-SS-01 (see above) and later submitted for PCB field screening analysis.
- 1600 hrs: START Team Members reviewed and turned in completed surface soil data sheets for each sample location.
Sample aliquots for PCB field screening, collected to date, were transferred to EPA chemist Clifford for processing and PCB field screening analyses.
- 1630 hrs: START personnel secured IDW drums, secured the site and departed the Jard property.

16 April 2013 (Tuesday) – Sediment Sampling

Weather: Partly cloudy, 45 to 50 °F

- 0730 hrs: START members Kelly, Hornok, Bitzas, Dupree, Robinson, Saylor, Christine Scesny, and Sharp arrived at the Jard property.
- 0745 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain; trips-slips-falls, working near water, heavy lifting, traffic concerns, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously but will be monitored) and biological hazards (ticks, poison ivy, thorn bushes, snakes, dogs, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O₂, H₂S, CO, and PID meter. Background ambient readings: LEL = 0%; O₂ = 20.9%; H₂S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm.
START Team established decontamination area and conduct decontamination of non-sample SD-50A (Sample #: JCS-556) was collected using a metal scoop at a depth of 0 to 6 inches bgs from a background wetland (PEM) area located north of the Jard property and later submitted for PCB field screening analysis.
- 0850 hrs: Sediment sample SD-50B (Sample #: JCS-557) was collected using a hand auger at a depth of 6 to 12 inches bgs from a background wetland (PEM) area located north of the Jard property and later submitted for PCB field screening analysis.
- 0855 hrs: Sediment sample SD-50C (Sample #: JCS-558) was collected using a hand auger at a depth of 12 dedicated equipment. Non-dedicated equipment (augers, metal scoops, etc.) will be

- decontaminated after the collection of each sample, and prior to use for the collection of other samples.
- 0830 hrs: START members Bitzas and Hornok began documenting previously mapped/delineated wetland area located west of Park Street. In addition, START members Kelly and Sharp began marking sediment sample locations, first in the background wetland located north of the Jard property and then in the area west of Park Street. Additional START personnel mobilized to the background wetland located north of the Jard property to begin sampling.
- 0845 hrs: Sediment to 24 inches bgs from a background wetland (PEM) area located north of the Jard property and later submitted for PCB field screening analysis.
- 0930 hrs: Sediment sample SD-51A (Sample #: JCS-559) was collected using a metal scoop at a depth of 0 to 6 inches bgs from a background wetland (PEM) area located north of the Jard property and later submitted for PCB field screening analysis.
- 0940 hrs: Sediment sample SD-51B (Sample #: JCS-560) was collected using a hand auger at a depth of 6 to 12 inches bgs from a background wetland (PEM) area located north of the Jard property and later submitted for PCB field screening analysis.
- 0945 hrs: Sediment sample SD-51C (Sample #: JCS-561) was collected using a hand auger at a depth of 12 to 24 inches bgs from a background wetland (PEM) area located north of the Jard property and later submitted for PCB field screening analysis.
- 0950 hrs: Sediment sample SD-52A (Sample #: JCS-562) was collected using a metal scoop at a depth of 0 to 6 inches bgs from a background wetland (PEM) area located north of the Jard property and later submitted for PCB field screening analysis.
- 0955 hrs: Sediment sample SD-52B (Sample #: JCS-563) was collected using a hand auger at a depth of 6 to 12 inches bgs from a background wetland (PEM) area located north of the Jard property and later submitted for PCB field screening analysis.
- 1000 hrs: Sediment sample SD-52C (MS/MSD) (Sample #: JCS-564) was collected using a hand auger at a depth of 12 to 24 inches bgs from a background wetland (PEM) area located north of the Jard property and later submitted for PCB field screening analysis.
- 1020 hrs: Sediment sample SD-53A (Sample #: JCS-565) was collected using a metal scoop at a depth of 0 to 6 inches bgs from a background wetland (PSS) area located north of the Jard property and later submitted for PCB field screening analysis.
- 1025 hrs: Sediment sample SD-53B (Sample #: JCS-566) was collected using a hand auger at a depth of 6 to 12 inches bgs from a background wetland (PSS) area located north of the Jard property and later submitted for PCB field screening analysis.
- 1030 hrs: Sediment sample SD-53C (Sample #: JCS-567) was collected using a hand auger at a depth of 12 to 24 inches bgs from a background wetland (PSS) area located north of the Jard property and later submitted for PCB field screening analysis.
- 1100 hrs: Sediment sample SD-54A (Sample #: JCS-568) was collected using a metal scoop at a depth 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1735 hrs: Sediment sample SD-18B (Sample #: JCS-509) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1800 hrs: START Team Members reviewed and turned in completed sediment sample data sheets for each sample location. Note that samples were generally collected in sequence from downstream to upstream locations. However, due to the limited water flow and direct flow path between sample locations, there does not appear to be any potential cross-contamination influence as a of 0 to 6 inches bgs from a background wetland (PSS) area located north of the Jard property and later submitted for PCB field screening analysis.

- 1105 hrs: Sediment sample SD-54B (Sample #: JCS-569) was collected using a hand auger at a depth of 6 to 12 inches bgs from a background wetland (PSS) area located north of the Jard property and later submitted for PCB field screening analysis.
- 1110 hrs: Sediment sample SD-54C (Sample #: JCS-570) was collected using a hand auger at a depth of 12 to 24 inches bgs from a background wetland (PSS) area located north of the Jard property and later submitted for PCB field screening analysis.
- 1125 hrs: Sediment sample SD-55A (Sample #: JCS-571) was collected using a metal scoop at a depth of 0 to 6 inches bgs from a background wetland (PSS) area located north of the Jard property and later submitted for PCB field screening analysis.
- 1130 hrs: Sediment sample SD-55B (Sample #: JCS-572) was collected using a hand auger at a depth of 6 to 12 inches bgs from a background wetland (PSS) area located north of the Jard property and later submitted for PCB field screening analysis.
- 1135 hrs: Sediment sample SD-55C (Sample #: JCS-573) was collected using a hand auger at a depth of 12 to 24 inches bgs from a background wetland (PSS) area located north of the Jard property and later submitted for PCB field screening analysis.
- 1315 hrs: Sediment sample SD-48A (Sample #: JCS-553) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from an area directly adjacent to the unnamed stream located west of the Jard property and which drains the wetland area on property P030. The sample was later submitted for PCB field screening analysis. Note that samples are being collected from downstream to upstream locations. However, due to the limited water and flow, there does not appear to be any potential cross-contamination influence as a result of stirring up the sediment at adjacent sampling locations.
- 1320 hrs: Sediment sample SD-48B (Sample #: JCS-554) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from an area directly adjacent to the unnamed stream located west of the Jard property and which drains the wetland area on property P030. The sample was later submitted for PCB field screening analysis.
In addition, sediment sample SD-49A (Sample #: JCS-555) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the unnamed stream located west of the Jard property and which drains the wetland area on property P030. The sample was later submitted for PCB field screening analysis.
- 1325 hrs: Sediment sample SD-47A (Sample #: JCS-551) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the unnamed stream located west of the Jard property and which drains the wetland area on property P030. The sample was later submitted for PCB field screening analysis..
- 1330 hrs: Sediment sample SD-46A (Sample #: JCS-550) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the unnamed stream located west of the Jard property and which drains the wetland area on property P030. The sample was later submitted for PCB field screening analysis.
- 1335 hrs: Sediment sample SD-45A (Sample #: JCS-549) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the unnamed stream located west of the Jard property and which drains the wetland area on property P030. The sample was later submitted for PCB field screening analysis.
In addition, sediment sample SD-47B (Sample #: JCS-552) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the unnamed stream located west of the Jard property and which drains the wetland area on property P030. The sample was later submitted for PCB field screening analysis.
- 1340 hrs: Sediment sample SD-43A (Sample #: JCS-547) was collected using a metal scoop at a depth of 0 to 6 inches below the sediment-water interface from the unnamed stream located west of

the Jard property and which drains the wetland area on property P030. The sample was later submitted for PCB field screening analysis.

In addition, sediment sample SD-44A (Sample #: JCS-548) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the unnamed stream located west of the Jard property and which drains the wetland area on property P030. The sample was later submitted for PCB field screening analysis.

- 1344 hrs: Sediment sample SD-42A (Sample #: JCS-545) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1349 hrs: Sediment sample SD-42B (Sample #: JCS-546) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1350 hrs: Sediment sample SD-41A (Sample #: JCS-544) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1355 hrs: Sediment sample SD-40A (Sample #: JCS-543) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1405 hrs: Sediment sample SD-39A (Sample #: JCS-542) was collected using a hand auger at a depth of 0 to 8 inches below the sediment-water interface from the stream that runs behind property P041 located west of the Jard property along Park Street. The sample was later submitted for PCB field screening analysis.
- 1445 hrs: Sediment sample SD-38A (Sample #: JCS-541) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the stream that runs through residential property P005 located west of the Jard property on Park Street. The sample was later submitted for PCB field screening analysis.
- 1448 hrs: Sediment sample SD-36A (Sample #: JCS-538) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the stream that runs through residential property P006 located west of the Jard property along Park Street. The sample was later submitted for PCB field screening analysis.
- 1450 hrs: Sediment sample SD-37A (Sample #: JCS-540) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the stream that runs through residential property P005 located west of the Jard property along Park Street. The sample was later submitted for PCB field screening analysis.
- 1452 hrs: Sediment sample SD-36B (Sample #: JCS-539) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the stream that runs through residential property P006 located west of the Jard property along Park Street. The sample was later submitted for PCB field screening analysis.
- 1455 hrs: Sediment sample SD-35A (Sample #: JCS-537) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the stream that runs through property P032 and Duck Pond located west of the Jard property along Park Street. The sample was later submitted for PCB field screening analysis. Weather conditions change from light to heavy rain.
- 1500 hrs: Sediment sample SD-34A (Sample #: JCS-536) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the stream that runs through property

- P032 and Duck Pond located west of the Jard property along Park Street. The sample was later submitted for PCB field screening analysis.
- 1505 hrs: Sediment sample SD-32A (Sample #: JCS-534) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the pond that exists on residential property P011 located west of the Jard property along Park Street. The sample was later submitted for PCB field screening analysis.
- In addition, sediment sample SD-33A (Sample #: JCS-535) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the stream that runs through property P031 located west of the Jard property along Park Street. The sample was later submitted for PCB field screening analysis.
- 1510 hrs: Sediment sample SD-31A (Sample #: JCS-532) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the pond that exists on residential property P011 located west of the Jard property along Park Street. The sample was later submitted for PCB field screening analysis.
- 1513 hrs: Sediment sample SD-31B (Sample #: JCS-533) was collected using a hand auger at a depth of 12 to 18 inches below the sediment-water interface from the pond that exists on residential property P011 located west of the Jard property along Park Street. The sample was later submitted for PCB field screening analysis.
- 1515 hrs: Sediment sample SD-30A (Sample #: JCS-530) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the pond that exists on residential property P011 located west of the Jard property along Park Street. The sample was later submitted for PCB field screening analysis.
- 1520 hrs: Sediment sample SD-30B (Sample #: JCS-531) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the pond that exists on residential property P011 located west of the Jard property along Park Street. The sample was later submitted for PCB field screening analysis.
- 1540 hrs: Sediment sample SD-19A (Sample #: JCS-510) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- In addition, sediment sample SD-20A (Sample #: JCS-512) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1542 hrs: Sediment sample SD-19B (Sample #: JCS-511) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1545 hrs: Sediment sample SD-20B (Sample #: JCS-513) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- In addition, sediment sample SD-25A (Sample #: JCS-520) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1550 hrs: Sediment sample SD-25B (Sample #: JCS-521) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the wetland area located west of the

- Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1555 hrs: Sediment sample SD-26A (Sample #: JCS-522) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1600 hrs: Sediment sample SD-26B (Sample #: JCS-523) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1630 hrs: Equipment rinsate blank sample RB-30 (Sample #: JCW-028; CLP #: A4B54) was collected from hand auger sampling equipment (augers, scoops, etc.) associated with sediment sampling activities.
- 1650 hrs: Sediment sample SD-22A (Sample #: JCS-515) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1700 hrs: Sediment sample SD-21A (Sample #: JCS-514) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1703 hrs: Sediment sample SD-23A (Sample #: JCS-516) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1705 hrs: Sediment sample SD-23B (Sample #: JCS-517) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- In addition, sediment sample SD-28A (Sample #: JCS-526) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1706 hrs: Sediment sample SD-24A (Sample #: JCS-518) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1710 hrs: Sediment sample SD-24B (Sample #: JCS-519) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- In addition, sediment sample SD-28B (Sample #: JCS-527) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- Also, sediment sample SD-29A (Sample #: JCS-528) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.

- 1715 hrs: Sediment sample SD-27A (Sample #: JCS-524) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1717 hrs: Sediment sample SD-27B (Sample #: JCS-525) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1720 hrs: Sediment sample SD-29B (Sample #: JCS-529) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1730 hrs: Sediment sample SD-18A (Sample #: JCS-508) was collected using a hand auger at a depth of 0 to result of the sampler stirring up the sediment from adjacent sampling locations.
- 1830 hrs: START personnel secured IDW drums, secured the site and departed the Jard property.

17 April 2013 (Wednesday) – Site documentation and Sample Preparation/Shipping

Weather: Partly cloudy, 45 to 50 °F

- 0700 hrs: START members Kelly, Hornok, Bitzas, Dupree, Robinson, Saylor, Scesny, and Sharp arrived at the Jard property. EPA Chemist Clifford also arrived at site. Performance evaluation samples PE-ASX00183 (Sample #: JCS-477; CLP #: A4B55), PE-ASX00184 (Sample #: JCS-478; CLP #: A4B56), PE-AS1507 (Sample #: JCS-479; CLP #: A4B57), PE-AS1487 (Sample #: JCS-480; CLP #: A4B58), PE-AS1430 (Sample #: JCS-575; CLP #: A4B77), PE-ASX0180 (Sample #: JCS-576; CLP #: A4B78), PE-ASX0181 (Sample #: JCS-578; CLP #: A4B99), PE-AS1508 (Sample #: JCS-579; CLP #: A4C00), PE-ASX0182 (Sample #: JCS-581; CLP #: A4C20), PE-AS1488 (Sample #: JCS-582; CLP #: A4C21), PE-ASX0179 (Sample #: JCS-586; CLP #: A4C31), and PE-AS1431 (Sample #: JCS-587; CLP #: A4C32), were collected for CLP Aroclor analysis. Sample aliquots for PCB field screening, collected to date, were transferred to EPA chemist Clifford for processing and PCB field screening analyses.
- 0745 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site personnel and reviewed physical hazards (uneven terrain), chemical hazards (PCB containing sediment), and biological hazards. Personnel signed the HASP. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O₂, H₂S, CO, and PID meter. Background ambient readings: LEL = 0%; O₂ = 20.9%; H₂S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm.
- START personnel continued to complete sample documentation activities, to classify sample matrix materials using the modified Burmiester soil classification, to prepare samples and packaging for environmental and dangerous good shipping, and assist with field screening remaining sample aliquots. START geologist Kelly continued to conduct classification of sample matrix materials using the modified Burmiester soil classification and to prepare sample aliquots for field screening.
- In addition, START Members Hornok and Kelly continued discussions from the previous evening, review and selection of samples to be prepared and shipped for CLP Aroclor analyses. The determination was based on, but not limited to the following; field screening result, PCB Aroclor detected via field screening (i.e. 1242, 1254, 1260, etc.), spatial location, depth, sample matrix composition, available sample volume, available similar background sample matrix, and EPA's request that at least one sample from each residential property be analyzed through CLP.

0945 hrs: START members Kelly and Hornok spoke with COR Bosworth regarding sample selection, current status of field screening results, and status of sampling activities. Also discussed with COR Bosworth the samples selected by EPA Chemist Scott Clifford to be sent to EPA NERL for additional PCB analysis and examination of possible PCB interferences. These samples consisted of the following surface soil samples: P021-SS-03A, P021-SS-03B, P021-SS-03C, P021-SS-05B, P021-SS-05C, P021-SS-01A, and P020-SS-09A.

The following table lists the samples that were selected for CLP Aroclor analyses, which were prepared and shipped. The table also indicates which samples would have aliquots held for potential EPA CLP Congener analysis. Determination of which samples would be sent for congener analysis would be completed upon review of CLP Aroclor analysis results and further discussion between EPA and START personnel. Samples to be held for congener analysis would be secured at NERL under a START COC and within appropriate temperature ranges. Once selection and shipment of the selected samples for congener analyses have been completed, the remaining sample aliquots would be disposed of in an appropriate manner by START.

Sample Location	Sample Number	CLP Sample Number	Date Collected	Time Collected (hrs)	Congener Analysis	Notes
SO-06 A	JCS-006	A4B23	2013-04-03	0840	Y	
SO-07 A	JCS-008	A4B24	2013-04-03	0855	Y	
SO-14 A	JCS-015	A4B25	2013-04-03	1040	Y	Field duplicate SO-200A
SO-21 A	JCS-024	A4B27	2013-04-03	1150	Y	
SO-22 A	JCS-025	A4B28	2013-04-03	1155	Y	
SO-23 A	JCS-026	A4B29	2013-04-03	1200	Y	MS/MSD
SO-24 A	JCS-078	A4B45	2013-04-04	0800	Y	
SO-25 B	JCS-029	A4B46	2013-04-04	0810	Y	
SO-28 A	JCS-039	A4B47	2013-04-04	0905	Y	
SO-29 A	JCS-040	A4B48	2013-04-04	0845	Y	
SO-30 B	JCS-042	A4B51	2013-04-04	0930	Y	
SO-31 A	JCS-043	A4B49	2013-04-04	0900	Y	
SO-31 B	JCS-044	A4B50	2013-04-04	0905	Y	
SO-34 A	JCS-046	A4B30	2013-04-04	1145	Y	
SO-36 A	JCS-048	A4B31	2013-04-04	1230	Y	
SO-45 A	JCS-060	A4B36	2013-04-04	1150	Y	Field duplicate SO-201A
SO-46 A	JCS-061	A4B32	2013-04-04	1438	Y	
SO-52 A	JCS-069	A4B41	2013-04-04	0826	Y	
SO-53 A	JCS-084	A4B42	2013-04-04	1045	Y	

Sample Location	Sample Number	CLP Sample Number	Date Collected	Time Collected (hrs)	Congener Analysis	Notes
SO-57 A	JCS-072	A4B38	2013-04-04	1405	Y	
SO-61 A	JCS-182	A4B40	2013-04-04	1505	Y	
SO-62 A	JCS-076	A4B33	2013-04-04	1520	Y	
SO-64 A	JCS-183	A4B34	2013-04-04	1520	Y	
SO-65 A	JCS-086	A4B35	2013-04-05	0845	Y	
SO-85 C	JCS-116	A4B44	2013-04-08	1510	Y	MS/MSD
SO-91 A	JCS-125	A4B43	2013-04-08	1545	Y	
SO-92 A	JCS-126	A4B39	2013-04-08	1600	Y	
SO-200 A	JCS-475	A4B26	2013-04-03	1040	N	SO-14A
SO-201 A	JCS-476	A4B37	2013-04-04	1150	N	SO-45A
SB-01 C	JCS-130	A4B17	2013-04-01	1430	N	Insufficient volume for congener aliquot
SB-01 D	JCS-131	A4B52	2013-04-01	1440	Y	
SB-03 A	JCS-135	A4B53	2013-04-01	1555	Y	
SB-03 B	JCS-136	A4B18	2013-04-01	1605	N	Insufficient volume for congener aliquot
SB-05 B	JCS-138	A4B19	2013-04-08	1135	N	Insufficient volume for congener aliquot
SB-06 B	JCS-148	A4B20	2013-04-08	1235	Y	
SB-08 D	JCS-153	A4B21	2013-04-08	1400	N	Insufficient volume for congener aliquot
SB-09 D	JCS-143	A4B22	2013-04-08	1250	N	Insufficient volume for congener aliquot
GW-01 EPA-100	JCW-001	A4A90	2013-04-02	1355	N	
GW-02 EPA-107	JCW-002	A4A91	2013-04-02	1030	N	
GW-03 MW-02	JCW-003	A4A92	2013-04-02	1405	N	
GW-04 MW-3	JCW-004	A4A93	2013-04-02	1700	Y	
GW-05 MW-3D	JCW-005	A4A94	2013-04-02	1505	N	
GW-06 MW-6	JCW-006	A4A95	2013-04-02	1630	N	
GW-07 MW-6D	JCW-007	A4A96	2013-04-02	1505	N	
GW-08 MW-9D	JCW-008	A4A97	2013-04-02	1125	N	
GW-09 MW-11	JCW-009	A4A98	2013-04-02	1110	N	
GW-10 EPA-104D	JCW-010	A4A99	2013-04-02	0920	N	MS/MSD

Sample Location	Sample Number	CLP Sample Number	Date Collected	Time Collected (hrs)	Congener Analysis	Notes
GW-11 MW-9D	JCW-011	A4B00	2013-04-02	1125	N	GW-08
SD-19 A	JCS-510	A4C11	2013-04-16	1540	Y	
SD-20 A	JCS-512	A4C17	2013-04-16	1540	Y	
SD-21 A	JCS-514	A4C28	2013-04-16	1700	Y	
SD-22 A	JCS-515	A4C12	2013-04-16	1650	Y	
SD-23 A	JCS-516	A4C13	2013-04-16	1703	Y	
SD-25 A	JCS-520	A4C14	2013-04-16	1545	Y	
SD-28 A	JCS-526	A4C15	2013-04-16	1705	Y	MS/MSD
SD-29 B	JCS-529	A4C16	2013-04-16	1720	Y	
SD-31 A	JCS-532	A4C08	2013-04-16	1510	Y	
SD-32 A	JCS-534	A4C07	2013-04-16	1505	Y	
SD-36 A	JCS-538	A4C06	2013-04-16	1448	Y	
SD-39 A	JCS-542	A4C05	2013-04-16	1405	Y	
SD-41 A	JCS-544	A4C04	2013-04-16	1350	Y	
SD-42 A	JCS-545	A4C03	2013-04-16	1344	Y	
SD-44 A	JCS-548	A4C02	2013-04-16	1340	Y	
SD-46 A	JCS-550	A4C10	2013-04-16	1330	Y	
SD-47 A	JCS-551	A4C09	2013-04-16	1325	Y	Field Duplicate SD-100A
SD-49 A	JCS-555	A4C01	2013-04-16	1320	Y	
SD-50 A	JCS-556	A4C23	2013-04-16	0845	Y	
SD-51 A	JCS-559	A4C22	2013-04-16	0930	Y	
SD-51 C	JCS-561	A4C24	2013-04-16	0945	Y	
SD-52 C	JCS-564	A4C27	2013-04-16	1000	Y	
SD-53 A	JCS-565	A4C29	2013-04-16	1020	Y	
SD-53 B	JCS-566	A4C25	2013-04-16	1025	Y	MS/MSD
SD-54 C	JCS-570	A4C26	2013-04-16	1110	Y	Field Duplicate SD-101A
SD-100 A	JCS-580	A4C18	2013-04-16	1325	N	SD-47A
SD-101 C	JCS-585	A4C30	2013-04-16	1110	N	SD-54C
P001-SS-07 A	JCS-499	A4C40	2013-04-15	1443	Y	

Sample Location	Sample Number	CLP Sample Number	Date Collected	Time Collected (hrs)	Congener Analysis	Notes
P001-SS-10 B	JCS-506	A4C41	2013-04-15	1505	Y	
P002-SS-02 C	JCS-424	A4C38	2013-04-15	1305	Y	
P002-SS-07 B	JCS-438	A4C39	2013-04-15	1325	Y	
P003-SS-01 B	JCS-390	A4B73	2013-04-12	0850	Y	
P003-SS-02 B	JCS-393	A4B74	2013-04-12	0920	Y	
P004-SS-07 B	JCS-379	A4B75	2013-04-11	1440	Y	
P004-SS-09 B	JCS-384	A4B76	2013-04-11	1400	Y	
P005-SS-02 A	JCS-334	A4B85	2013-04-11	1325	Y	
P005-SS-04 A	JCS-340	A4B79	2013-04-11	1155	Y	
P005-SS-04 B	JCS-341	A4C33	2013-04-11	1205	Y	
P005-SS-06 A	JCS-345	A4B81	2013-04-11	1250	Y	
P005-SS-06 B	JCS-346	A4C34	2013-04-11	1255	Y	
P005-SS-06 C	JCS-347	A4B82	2013-04-11	1300	Y	
P006-SS-04 A	JCS-308	A4B69	2013-04-11	0940	Y	
P006-SS-04 B	JCS-309	A4B70	2013-04-11	0945	Y	
P006-SS-09 A	JCS-323	A4B71	2013-04-11	1035	Y	
P007-SS-01 A	JCS-269	A4B66	2013-04-10	1515	Y	
P007-SS-01 B	JCS-270	A4B86	2013-04-10	1525	Y	
P007-SS-01 C	JCS-271	A4B67	2013-04-10	1535	Y	
P007-SS-05 C	JCS-283	A4B61	2013-04-11	0845	Y	MS/MSD
P007-SS-09 B	JCS-294	A4B68	2013-04-10	1535	Y	
P009-SS-03 A	JCS-243	A4B62	2013-04-10	1355	Y	
P009-SS-11 C	JCS-268	A4B59	2013-04-10	1125	Y	
P009-SS-20 C	JCS-574	A4B60	2013-04-10	1125	N	Field Duplicate of P009-SS-11C
P010-SS-03 C	JCS-217	A4B88	2013-04-10	0920	Y	
P010-SS-04 B	JCS-219	A4B87	2013-04-10	0935	Y	MS/MSD
P010-SS-04 C	JCS-220	A4C35	2013-04-10	0945	Y	
P010-SS-06 B	JCS-224	A4C36	2013-04-10	1050	Y	
P010-SS-21 C	JCS-577	A4B89	2013-04-10	0920	N	Field Duplicate of P010-SS-03C

Sample Location	Sample Number	CLP Sample Number	Date Collected	Time Collected (hrs)	Congener Analysis	Notes
P011-SS-04 B	JCS-164	A4B84	2013-04-09	1105	Y	
P011-SS-07 B	JCS-171	A4B63	2013-04-09	1110	Y	
P011-SS-07 C	JCS-172	A4B83	2013-04-09	1125	Y	
P011-SS-09 B	JCS-177	A4B64	2013-04-09	1210	Y	
P011-SS-09 C	JCS-178	A4B65	2013-04-09	1225	Y	
P020-SS-01 A	JCS-449	A4B95	2013-04-12	1030	Y	
P020-SS-01 B	JCS-450	A4B97	2013-04-12	1040	Y	
P020-SS-03 A	JCS-454	A4B91	2013-04-15	1100	Y	
P020-SS-04 A	JCS-456	A4B90	2013-04-15	1130	Y	
P020-SS-07 B	JCS-464	A4B92	2013-04-15	1135	Y	
P020-SS-07 C	JCS-465	A4B93	2013-04-15	1140	Y	
P020-SS-08 A	JCS-466	A4B94	2013-04-12	1030	Y	
P020-SS-09 C	JCS-471	A4B98	2013-04-15	1115	Y	
P020-SS-10 B	JCS-473	A4B96	2013-04-15	1140	Y	
P020-SS-15 A	JCS-583	A4C37	2013-04-18	0900	Y	

[NOTE: The sample time listed on COC# 1-041813-120158-0013 for P010-SS-04B (CLP #: A4B87) was incorrect. The above listed time is the correct time for the sample.]

1800 hrs: START personnel completed sample shipment preparation, organized and packaged traffic reports. START member Robinson left the site and proceeded to deliver samples and paperwork to FedEx, located in Menands, New York for shipment. Below is a summary of the traffic reports (TR), Airbill numbers (AB), and samples sent to the CLP Organics Laboratory (Chemtech Consulting Group) for PCB Aroclor analysis:

TR #: 1-041713-114538-0006, Master AB #: 5141 2418 0710, 11 source samples for PCB Aroclor analysis. These 11 samples were shipped as dangerous goods due to field screening results and field observations and were to be combined with samples shipped under TR #: 1-041713-115310-0007 AB #: 5141 2418 0743, to constitute a complete sample delivery group (SDG) with appropriate quality assurance/quality control (QA/QC) samples. Due to a dangerous goods shipping error, this shipment was returned and shipped on 18 April 2013 with the same instructions (see below).

TR #: 1-041713-115310-0007 AB #: 5141 2418 0743, eight source samples including one field duplicate, and one MS/MSD; plus two performance evaluation samples for PCB Aroclor analysis. Samples from this TR were to be combined with samples shipped under TR #: 1-041713-114538-0006, Master AB #: 5141 2418 0710, to form a complete SDG.

TR #: 1-041713-120340-0008, Master AB #: 5141 2418 0754, 13 source samples for PCB Aroclor analysis. These 13 samples were shipped as dangerous goods due to field

screening results and field observations and were to be combined with samples shipped under TR #: 1-041713-120513-0009 AB #: 5141 2418 0802, to constitute a complete sample delivery group (SDG) with appropriate quality assurance/quality control (QA/QC) samples.

TR #: 1-041713-120513-0009 AB #: 5141 2418 0802, five source samples including one field duplicate, and one MS/MSD; plus two performance evaluation samples for PCB Aroclor analysis. Samples from this TR were to be combined with samples shipped under TR #: 1-041713-120340-0008, Master AB #: 5141 2418 0754, to form a complete SDG.

TR #: 1-041713-120703-0010, Master AB #: 5141 2418 0700, two aqueous equipment rinsate blank samples for PCB Aroclor analysis.

1820 hrs: Sample selection/comparison, aliquots, shipping/packaging/delivery,
START personnel secured IDW drums, secured the site and departed the Jard property.

18 April 2013 (Thursday) – Site documentation and Sample Preparation/Shipping

Weather: Partly cloudy, 45 to 50 °F

0700 hrs: START members Kelly, Hornok, Bitzas, Dupree, Robinson, Saylor, Scesny, and Sharp arrived at the Jard property.

0715 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, heavy lifting, traffic concerns, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously) and biological hazards (ticks, poison ivy, thorn bushes, snakes, dogs, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O₂, H₂S, CO, and PID meter. Background ambient readings: LEL = 0%; O₂ = 20.9%; H₂S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm.

START Team established decontamination area and conduct decontamination of non-dedicated equipment. Non-dedicated equipment (augers, metal scoops, etc.) will be decontaminated after the collection of each sample, and prior to use for the collection of other samples.

Due to a paperwork issues with the Dangerous Goods Shipments dropped at FedEx on 17 April 2013, START Member Hornok left site and proceeded to the FedEx office, located in Menands, New York to determine what the issue was that caused rejection of the shipments and to retrieve the samples for re-icing and repackaging of the samples, and resubmit the shipment to FedEx.

0800 hrs: Background surface soil sample P020-SS-11A (Sample #: JCS-589) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P020 at surface soil sample location P020-SS-11, located on the northwest corner of the property adjacent to the stream. Due to sample matrix similarity, this sample was not submitted for analysis.

START personnel continued to complete sample documentation activities, to classify sample matrix materials using the modified Burmiester soil classification, to prepare samples and packaging for environmental and dangerous good shipping.

0815 hrs: Background surface soil sample P020-SS-12A (Sample #: JCS-590) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P020 at surface soil sample location P020-SS-12, located at the base of a pile behind the residence. Due to sample matrix similarity, this sample was not submitted for analysis.

0845 hrs: Background surface soil sample P020-SS-14A (Sample #: JCS-592) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P020 at surface soil sample

Lab Phone: 908-789-8900

1000

Copy

included in

[Signature]

Signature

4/22/22

Date _____

N/A

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Samples	Applu KJ	4/18/13	Airbill # 5141 2418 095	4/18/13	1315						
						Samples	Airbill # 5141 2418 095		Palak shah	4/19/13	93

Temp 5°C

AirbillNo: 5141 2418 0857

Cooler #: WL002/SB011

Lab Phone: 908-789-8900

SDG# A4B99

[illegible]

Samples Transferred From Chain of Custody #	
1	2
3	4
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97	98
99	100

Analysis Key: CLP PCBs=SOM01.2 Aroclors

N/A

[illegible]

Temp 5°C

SDA# A4B99

USEPA CLP Organics COC (LAB COPY)

DateShipped: 4/18/2013

CarrierName: FedEx

AirbillNo: 5141 2418 1018

COPY

CHAIN OF CUSTODY RECORD

Case #: 43395

Cooler #: DG Cans

No: 1-041813-143209-0014

Lab: ChemTech Consulting Group

Lab Contact: Divya Mehta

Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	For Lab Use Only
A4C01	Sediment/ START	Grab	CLP PCBs(21)	798 (4 C) (1)	JCS-555	04/16/2013 13:20		
A4C02	Sediment/ START	Grab	CLP PCBs(21)	800 (4 C) (1)	JCS-548	04/16/2013 13:40		
A4C03	Sediment/ START	Grab	CLP PCBs(21)	802 (4 C) (1)	JCS-545	04/16/2013 13:44		
A4C04	Sediment/ START	Grab	CLP PCBs(21)	804 (4 C) (1)	JCS-544	04/16/2013 13:50		
A4C05	Sediment/ START	Grab	CLP PCBs(21)	806 (4 C) (1)	JCS-542	04/16/2013 14:05		
A4C06	Sediment/ START	Grab	CLP PCBs(21)	808 (4 C) (1)	JCS-538	04/16/2013 14:48		
A4C07	Sediment/ START	Grab	CLP PCBs(21)	810 (4 C) (1)	JCS-534	04/16/2013 15:05		
A4C08	Sediment/ START	Grab	CLP PCBs(21)	812 (4 C) (1)	JCS-532	04/16/2013 15:10		

Special Instructions: Samples shipped as dangerous goods due to elevated PCB concentrations noted in field screening analysis. Please combine these samples with samples shipped under Fedex Airbill # 5141 2418 1030, COC #: 1-041813-143216-0015 to create one SDG.

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: CLP PCBs=SOM01.2 Aroclors .

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Samples	C Munn	4/18/13	Lab No 5141 2418 1018	4/18/13	1530						
						Samples	Lab No 5141 2418 1018		Jaffar Penker	4/19/13	935

SDG# A41B99

USEPA CLP Organics COC (LAB COPY)

COPY

CHAIN OF CUSTODY RECORD

Date Shipped: 4/18/2013

Carrier Name: FedEx

Airbill No: 5141 2418 1030

Case #: 43395

Cooler #: EPASB014

No: 1-041813-143216-0015

Lab: ChemTech Consulting Group

Lab Contact: Divya Mehta

Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	For Lab Use Only
A4C09	Sediment/START	Grab	CLP PCBs(21)	814 (4 C) (1)	JCS-551	04/16/2013 13:25		
A4C10	Sediment/START	Grab	CLP PCBs(21)	816 (4 C) (1)	JCS-550	04/16/2013 13:30		
A4C11	Sediment/START	Grab	CLP PCBs(21)	818 (4 C) (1)	JCS-510	04/16/2013 15:40		
A4C12	Sediment/START	Grab	CLP PCBs(21)	820 (4 C) (1)	JCS-515	04/16/2013 16:50		
A4C13	Sediment/START	Grab	CLP PCBs(21)	822 (4 C) (1)	JCS-516	04/16/2013 17:03		
A4C14	Sediment/START	Grab	CLP PCBs(21)	824 (4 C) (1)	JCS-520	04/16/2013 15:45		
A4C15	Sediment/START	Grab	CLP PCBs(21), CLP PCBs(21)	826 (4 C), 827 (4 C) (2)	JCS-526	04/16/2013 17:05		
A4C16	Sediment/START	Grab	CLP PCBs(21)	829 (4 C) (1)	JCS-529	04/16/2013 17:20		
A4C17	Sediment/START	Grab	CLP PCBs(21)	831 (4 C) (1)	JCS-512	04/16/2013 15:40		
A4C18	Sediment/START	Grab	CLP PCBs(21)	834 (4 C) (1)	JCS-580	04/16/2013 13:25		
A4C19	Rinsate Water/START	Grab	CLP PCBs(21), CLP PCBs(21)	836 (4 C), 837 (4 C) (2)	JCW-029	04/18/2013 10:15		

Sample(s) to be used for Lab QC: A4C15 - Special Instructions: Please combine with samples shipped under FedEx Airbill #: 5141 2418 1018, COC #: 1-041813-143209-0014 to form one sample delivery group.

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

N/A

Analysis Key: CLP PCBs=SOM01.2 Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Surplus	G. Horn	4/18/13	Airbill No 5141 2418 1030	4/18/13	1530						
						Surplus	Airbill No 5141 2418 1030		Palak Shih	4/18/13	935

(A4C19 is in SDG# A4C19)

Temp 5°C

DE / ESAT

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

FORM DC-2

Jard Company
Weston

LABORATORY NAME :	CHEMTECH CONSULTING GROUP, INC.		
CITY / STATE :	MOUNTAINSIDE, NJ		
CASE NO :	43395	SDG NO :	A4B99
SDG NOs TO FOLLOW	N/A		N/A
MOD. REF. NO. :	N/A		N/A
CONTRACT NO :	EPW11030		
SOW NO :	SOM 01.2		

MAY 10 2013

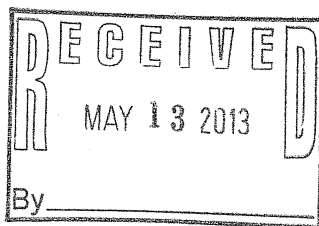
All documents delivered in the Complete SDG File (CSF) must be original documents where possible.

PAGE NOS:

CHECK

Weston
USEPA

- Inventory Sheet (DC-2) (Do not number)
- SDG Narrative
- SDG Cover Sheet/Traffic Report
- Trace Volatiles Data**



FROM	TO	LAB	CHECK
1	6	✓	✓
7	11	✓	✓

a. QC Summary

Deuterated Monitoring Compound Recovery (Form II VOA-1 and VOA-2)

NA NA - NA

Matrix Spike/Matrix Spike Duplicate Recover (Form III VOA) (if requested by USEPA Region)

NA NA -

Method Blank Summary (Form IV VOA)

NA NA -

GC/MS Instrument Performance Check (Form V VOA)

NA NA -

Internal Standard Area and RT Summary (Form VIII VOA)

NA NA -

b. Sample Data

TCL Results - Organics Analysis Data Sheet (Form I VOA-1 and VOA-2)

NA NA -

Tentatively Identified Compounds (Form I VOA-TIC)

Reconstructed total ion chromatograms (RIC) for each sample

For each sample:

Raw Spectra and background-subtracted mass spectra of target compounds identified

Quantitation reports

Mass Spectra of all reported TICs with three best library matches

c. Standards Data (All Instruments)

NA NA -

Initial Calibration Data (Form VI VOA-1, VOA-2, VOA-3)

RICs and Quantitation Reports for all Standards

Continuing Calibration Data (Form VII VOA-1, VOA-2, VOA-3)

RICs and Quantitation Reports for all Standards

d. Raw/Quality Control

BFB

NA NA -

Blank Data

NA NA -

Matrix Spike/Matrix Spike Duplicate Data (if requested by USEPA Region)

NA NA -

Evidence Audit Photocopy

**ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2**

CASE NO : 43395	SDG NO : A4B99	SDG NOS TO FOLLOW : N/A
N/A	N/A	MOD. REF. NO : N/A

e. Trace SIM Data (Place at the end of the Trace Volatiles Section

[Form I VOA-SIM; Form II VOA-SIM1 and VOA-SIM2; Form IV-VOA-SIM; Form VI VOA-SIM; Form VII VOA-SIM; Form VIII VOA-SIM; and all raw data for QC, Samples, and Standards.]

NA NA - NA

5. Low/Med Volatiles Data

a. QC Summary

Deuterated Monitoring Compound Recovery (Form II VOA-1, VOA-2, VOA-3, VOA-4)

NA NA - -

Matrix Spike/Matrix Spike Duplicate Recovery (Form III VOA-1 and VOA-2) (if requested by USEPA Region)

NA NA - -

Method Blank Summary (Form IV VOA)

NA NA - -

GC/MS Instrument Performance Check (Form V VOA)

NA NA - -

Internal Standard Area and RT Summary (Form VIII VOA)

NA NA - -

b. Sample Data

NA NA - -

TCL Results - Organics Analysis Data Sheet (Form I VOA-1 and VOA-2)

Tentatively Identified Compounds (Form I VOA-TIC)

Reconstructed total ion chromatograms (RIC) for each sample

For each sample:

Raw Spectra and background-subtracted mass spectra of target compounds identified

Quantitation reports

Mass Spectra of all reported TICs with three best library matches

c. Standards Data (All Instruments)

NA NA - -

Initial Calibration Data (Form VI VOA-1, VOA-2, VOA-3)

RICs and Quantitation Reports for all Standards

Continuing Calibration Data (Form VII VOA-1, VOA-2, VOA-3)

RICs and Quantitation Reports for all Standards

d. Raw/Quality Control (QC)Data

BFB

NA NA - -

Blank Data

NA NA - -

Matrix Spike/Matrix Spike Duplicate Data (if requested by USEPA Region)

NA NA - -

Evidence Audit Photocopy

**ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2**

CASE NO : 43395	SDG NO : A4B99	SDG NOs TO FOLLOW : N/A
N/A	N/A	MOD. REF. NO : N/A

6. Semivolatiles Data

a. QC Summary

Deuterated Monitoring Compound Recovery (Form II SV-1, SV-2, SV-3, SV-4)

NA NA - NA

Matrix Spike/Matrix Spike Duplicate Recovery Summary (Form III SV-1 and SV-2) (if requested by USEPA Region)

NA NA -

Method Blank Summary (Form IV SV)

NA NA -

GC/MS Instrument Performance Check (Form V SV)

NA NA -

Internal Standard Area and RT Summary (Form VIII SV-1 and SV-2)

NA NA -

b. Sample Data

TCL Results - Organics Analysis Data Sheet (Form I SV-1 and SV-2)

NA NA

Tentatively Identified Compounds (Form I SV-TIC)

Reconstructed total ion chromatograms (RIC) for each sample

For each sample:

NA NA

Raw Spectra and background-subtracted mass spectra of target compounds

Quantitation reports

Mass Spectra of TICs with three best library matches

GPC chromatograms (if GPC is r

c. Standards Data (All Instruments)

NA NA

Initial Calibration Data (Form VI SV-1, SV-2, SV-3)

RICs and Quantitation

Continuing Calibration Data (Form VII SV-1, S

RICs and Quantitation Reports for all Standards

d. Raw (QC)Data

DFTPP

NA NA -

Blank Data

NA NA -

MS/MSD Data (if requested by USEPA Region)

NA NA -

e. Raw GPC Data

NA NA -

Evidence Audit Photocopy

**ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2**

CASE NO : 43395	SDG NO : A4B99	SDG NOs TO FOLLOW : N/A
N/A	N/A	MOD. REF. NO : N/A

Semivolatile SIM Data

NA NA - NA

[Form I SV-SIM; Form II SV-SIM1 and SV-SIM2; Form III-SV-SIM1 and SV-SIM2 (if required; Form IV SV-SIM; Form VI SV-SIM; Form VII SV-SIM; Form VIII SV-SIM1 and SV-SIM2; and all raw data for QC, Samples, and Standards.]

7. Pesticides Data

a. QC Summary

Surrogate Recovery Summary (Form II PEST-1 and PEST-2)

NA NA - -

Matrix Spike/Matrix Spike Duplicate Recovery Summary (Form III PEST-1 and PEST-2)

NA NA - -

Laboratory Control Sample Recovery (Form III PEST-3 and PEST-4)

NA NA - -

Method Blank Summary (Form IV PEST)

NA NA - -

b. Sample Data

NA NA - -

TCL Results - Organics Analysis Data Sheet (Form I PEST)

Chromatograms (Primary Column)

Chromatograms from second GC column confirmation

GC Integration report or data system printout

Manual work sheets

For Pesticides by GC/MS

Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)

c. Standards Data

NA NA - -

Initial Calibration of Single Component Analytes (Form VI PEST-1 and PEST-2)

Toxaphene Initial Calibration (Form VI PEST-3 and PEST-4)

Analyte Resolution Summary (Form VI PEST-5, per column)

Performance Evaluation Mixture (Form VI PEST-6)

Individual Standard Mixture A (Form VI PEST-7)

Individual Standard Mixture B (Form VI PEST-8)

Individual Standard Mixture C (Form VI PEST-9 and PEST-10)

Calibration Verification Summary (Form VII PEST-1)

Calibration Verification Summary (Form VII PEST-2)

Evidence Audit Photocopy

**ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2**

CASE NO : 43395	SDG NO : A4B99	SDG NOS TO FOLLOW : N/A
N/A	N/A	MOD. REF. NO : N/A

Calibration Verification Summary (Form VII PEST-3)

Calibration Verification Summary (Form VII PEST-4)

Analytical Sequence (Form VIII PEST)

Florisil Cartridge Check (Form IX PEST-1)

Pesticide GPC Calibration (Form IX PEST-2)

Identification Summary for Single Component Analytes (Form X PEST-1)

Identification Summary for Toxaphene Form X PEST-2)

Chromatograms and data system printouts

A printout of Retention Times and corresponding peak areas or peak heights

d. Raw QC Data

Blank Data

NA

NA

Matrix Spike/Matrix Spike Duplicate Data

NA

NA

Laboratory Control Sample

NA

NA

e. Raw GPC Data

NA

NA

f. Raw Florisil Data

NA

NA

8. Aroclor Data

a. QC Summary

Surrogate Recovery Summary (Form II ARO-1 and ARO-2)

12

12

Matrix Spike/Matrix Spike Duplicate Summary (Form III ARO-1 and ARO-2)

13

14

Laboratory Control Sample Recovery (Form III ARO-3 and ARO-4)

15

15

Method Blank Summary (Form IV ARO)

16

16

b. Sample Data

17

96

TCL Results - Organics Analysis Data Sheet (Form I ARO)

NA

NA

Chromatograms (Primary Column)

NA

NA

Chromatograms from second GC column confirmation

NA

NA

GC Integration report of data system printout

NA

NA

Manual work sheets

NA

NA

For Aroclors by GC/MS

NA

NA

Evidence Audit Photocopy

**ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2**

CASE NO : 43395	SDG NO : A4B99	SDG NOs TO FOLLOW : N/A
N/A	N/A	MOD. REF. NO : N/A

Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)

c. Standards Data

97	220		
		✓	✓
		✓	✓
		✓	✓
		✓	✓
		✓	✓

- Aroclors Initial Calibration (Form VI ARO-1, ARO-2, and ARO-3)
- Calibration Verification Summary (Form VII ARO-1)
- Analytical Sequence (Form VIII ARO)
- Identification Summary for Multicomponent Analytes (Form X ARO)
- Chromatograms and data system printouts
- A printout of Retention Times and corresponding peak areas or peak heights

d. Raw QC Data

221	247		
		✓	✓
		✓	✓
		✓	✓
		-	NA

- Blank Data
- Matrix Spike/Matrix Spike Duplicate Data
- Laboratory Control Sample (LCS) Data

e. Raw GPC Data (if performed)

9. Miscellaneous Data

260	325		
		✓	✓
		✓	✓
		-	NA

- Original preparation and analysis forms or copies of preparation and analysis logbook pages
- Internal sample and sample extract transfer chain-of-custody records
- Screening records
- All instrument output, including strip charts from screening activities (describe or list)

10. EPA Shipping/Receiving Documents

326	329		
		✓	✓
		✓	✓
		✓	✓
		✓	✓

- Airbills (No. of shipments 4)
- Chain of Custody Records
- Sample Tags
- Sample Log-in Sheet (Lab & DC-1)
- Miscellaneous Shipping/Receiving Records (describe or list)

Evidence Audit Photocopy

**ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2**

CASE NO : 43395	SDG NO : A4B99	SDG NOs TO FOLLOW: <u>N/A</u>
N/A	N/A	MOD. REF. NO : <u>N/A</u>


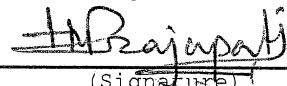
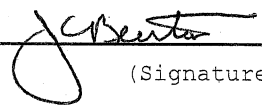
11. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)

Sample Transfer	340	341	✓	✓
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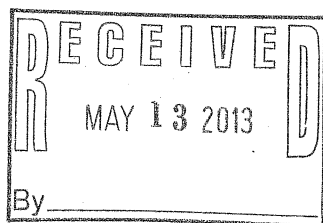
12. Other Records (describe or list)

Telephone Communication Log	NA	NA	-	NA
PE Instructions	341	342	✓	✓

13. Comments

Completed by: (CLP Lab)	 (Signature)	<u>Nimisha Pandey</u> (Printed Name/Title)	<u>05/09/13</u> (Date)
Verified by: (CLP Lab)	 (Signature)	<u>Himanshu Prajapati</u> (Printed Name/Title)	<u>05/09/13</u> (Date)
Audited by: (USEPA) Weston	 (Signature)	<u>John Burton/Technical Mgr</u> (Printed Name/Title)	<u>5/24/13</u> (Date)

Evidence Audit Photocopy

COPY

EPA NEW ENGLAND
COMPLETE SDG FILE
RECEIPT / TRANSFER FORM

Site: Jard Company Inc

TDD: 12-10-0008

Task: 0850

Case: 43395SDG: A4B99

Receipt Date	Received By : Name	Init.	Affiliation	CSF Activity	Custody Seals Present / Intact	Released To	Date
05/10/13	Doris Guzman	DG	ESAT	Received for Transfer	(Y) N (Y) N	Weston	05/10 / 13
5/13/13	B. Mahany	(N)	Weston	Storage + Validation	(Y) N (Y) N		
					Y N Y N		
					Y N Y N		
					Y N Y N		
					Y N Y N		
					Y N Y N		
					Y N Y N		
					Y N Y N		
					Y N Y N		
					Y N Y N		
					Y N Y N		

EPA-NE - DQO SUMMARY FORM

A separate Form should be completed for each sampling event. Refer to Attachment A for instructions on completing this form, Attachment B for a complete list of the parameter codes and Attachment C for an example of a completed form.

1. EPA Program: TSCA <u>CERCLA</u> RCRA DW NPDES CAA Other: _____ Projected Date(s) of Sampling <u>Spring (April/May) 2013</u> EPA Site Manager <u>Martha Bosworth</u> EPA Case Team Members _____ _____ _____	Site Name <u>Jard Company Inc</u> Site Location <u>Bennington, Vermont</u> Assigned Site Latitude/Longitude <u>42° 53' 21.5" north/73° 11' 21.9" west</u> CERCLA Site/Spill Identifier No <u>VTDO48141741</u> (Include Operable Unit) Phase: ERA SA/SI pre-RI RI (phase I, etc.) FS RD RA post-RA (circle one) <u>Other: Site Reassessment</u>								
2. QAPP Title and Revision Date <u>Site Assessment Program Site Specific Quality Assurance Project Plan for Surface and Subsurface Soil/Source, Ground Water, and Sediment Sampling Jard Company Inc, Bennington, Vermont dated 11 January 2013</u> Approved by: <u>Martha Bosworth</u> Date of Approval: <u>TBD</u> Title of Approving Official: <u>Site Assessment Manager</u> Organization*: <u>EPA</u> *If other than EPA, record date approval authority was delegated: _____ EPA Oversight Project (circle one) <u>Y</u> <u>N</u> Type of EPA Oversight (circle one) PRP or FF Other: _____ Confirmatory Analysis for Field Screening <u>Y</u> <u>N</u> If EPA Oversight or Confirmatory: % splits <u>TBD</u> Are comparability criteria documented? <u>Y</u> <u>N</u>									
3. a. b. c. d. e. f. g. h. i. j. k. l. m. n. o. p. q.	Matrix Code ¹ Parameter Code ² Preservation Code ³ Analytical Services Mechanism No. of Sample Locations Field QC: Field Duplicate Pairs Equipment Blanks VOA Trip Blanks Cooler Temperature Blanks Bottle Blanks Other: _____ PES sent to Laboratory Laboratory QC: Reagent Blank Duplicate Matrix Spike Matrix Spike Duplicate Other: _____	SO PCB 5 DAS or 65 4 See RB 0 1 per 0 NA 0 0 0 0 0 2 2 0 2 0	SO PCB 5 DAS or 28 2 2 See RB 0 1 per 0 6 0 0 0 2 2 0 2 0	SO PCB 5 CLP 2 CLP CLP 1 per 0 TBD 0 0 0 0 0 0 0 0 0	GW PCB 5 DAS or 21 2 See RB 0 1 per 0 3 0 0 1 1 0 1 0	GW PCB 5 DAS or 2 5 See RB 0 1 per 0 TBD 0 0 0 0 0 0 0 0 0	SD PCB 5 DAS or 60 5 See RB 0 1 per 0 NA 0 0 1 1 0 1 0	SD PCB 5 DAS or 60 5 See RB 0 1 per 0 3 0 0 0 0 0 0 0 0	SD PCB 5 CLP 60 5 See RB 0 1 per 0 TBD 0 0 0 0 0 0 0 0 0
4. Site Information Site Dimensions <u>Approximately 11.26 acres</u> List all potentially contaminated matrices <u>Surface and subsurface soil, sediment, ground water, and residential surface soil</u> Range of Depth to Groundwater <u>greater than 5 feet</u> Soil Types: <u>Surface</u> <u>Subsurface</u> Other: _____ Sediment Types: Stream Pond Estuary Wetland Other: _____ Expected Soil/Sediment Moisture Content: <u>High</u> Low									

1. EPA Program: TSCA <u>CERCLA</u> RCRA DW NPDES CAA Other: _____ Projected Date(s) of Sampling <u>Spring (April/May) 2013</u> EPA Site Manager <u>Martha Bosworth</u> EPA Case Team Members: _____ _____	Site Name <u>Jard Company Inc</u> Site Location <u>Bennington, Vermont</u> Assigned Site Latitude/Longitude <u>42° 53' 21.5" north/73° 11' 21.9" west</u> CERCLA Site/Spill Identifier No <u>VT048141741</u> (Include Operable Unit) Phase: ERA <u>SA/SI</u> pre-RI RI (phase I, etc.) FS RD RA post-RA (circle one) Other: <u>Site Reassessment</u>								
2. QAPP Title and Revision Date <u>Site Assessment Program Site Specific Quality Assurance Project Plan for Surface and Subsurface Soil/Source, Ground Water, and Sediment Sampling Jard Company Inc, Bennington, Vermont dated 11 January 2013</u> Approved by: <u>Martha Bosworth</u> Date of Approval: <u>TBD</u> Title of Approving Official: <u>Site Assessment Manager</u> Organization*: <u>EPA</u> *If other than EPA, record date approval authority was delegated: _____ EPA Oversight Project (circle one) Y <u>N</u> Type of EPA Oversight (circle one) PRP or FF Other: _____ Confirmatory Analysis for Field Screening <u>Y</u> N If EPA Oversight or Confirmatory: % splits <u>TBD</u> Are comparability criteria documented? Y N									
3. a.	Matrix Code ¹	SS	SS	SS	RB				
b.	Parameter Code ²	PCB Aroclors	PCB Aroclors	PCB Congeners	PCB Aroclors				
c.	Preservation Code ³	5	5	5	5				
d.	Analytical Services Mechanism	DAS or CLP	DAS or CLP	CLP	CLP Non- RAS				
e.	No. of Sample Locations	125	38	2	21				
Field QC:									
f.	Field Duplicate Pairs	7	2		0				
g.	Equipment Blanks	See RB	See RB	See RB	0				
h.	VOA Trip Blanks	0	0	0	0				
i.	Cooler Temperature Blanks	1 per cooler	1 per cooler	1 per cooler	1 per cooler				
j.	Bottle Blanks	0	0	0	0				
k.	Other: _____								
l.	PES sent to Laboratory	NA	6	TBD	0				
Laboratory QC:									
m.	Reagent Blank	0	0	0	0				
n.	Duplicate	0	0	0	0				
o.	Matrix Spike	0	2	0	0				
p.	Matrix Spike Duplicate	0	2	0					
q.	Other: _____								
4. Site Information Site Dimensions <u>Approximately 11.26 acres</u> List all potentially contaminated matrices <u>Surface and subsurface soil, sediment, ground water, and residential surface soil</u> Range of Depth to Groundwater <u>greater than 5 feet</u> Soil Types: <u>Surface</u> <u>Subsurface</u> Other: _____ Sediment Types: Stream Pond Estuary Wetland Other: _____ Expected Soil/Sediment Moisture Content: <u>High</u> Low									

When multiple matrices will be sampled during a sampling event, complete Sections 5-10 for each matrix.

Matrix Code¹ SO

5. Data Use (circle all that apply) Site Investigation/Assessment PRP Determination Removal Actions
 Nature and Extent of Contamination Human and/or Ecological Risk Assessment Remediation Alternatives
 Engineering Design Remedial Action
 Post-Remedial Action (quarterly monitoring) Other: _____

Draft DQO Summary Form 11/96

6. Summarize DQOs: Collect surface and subsurface soil/source samples from the identified source area (capped former building footprint and excavated staged material) on the property for PCB Aroclors field screening and fixed based laboratory analysis in source areas on the Jard Company Inc property. A subset of samples will be submitted for fixed laboratory analysis with a smaller subset submitted for PCB Congener analysis.

Complete Table if applicable

COCs	Action Levels	Analytical Method-Quantitation Limits
PCB Aroclors (Field Screening)	Above Background (Assumed to be ND)	0.2 mg/Kg
PCB Aroclors (Fixed Lab)	Above Background (Assumed to be ND)	33 ug/kg
PCB Congeners	Above Background (Assumed to be ND)	20 to 100 ng/Kg

7. Sampling Method (circle technique) Bailer Low flow pump (Region I method: Yes No) Peristaltic Pump
 Positive Displacement Pump Faucet or Spigot Other: _____
 Split Spoon Dredge Trowel Other: Direct sampling
- Sampling Procedures (SOP name, No., Rev. #, and date) _____
 List Background Sample Locations NA for source samples _____
 Circle: Grab or Composite _____
 "Hot spots" sampled: Yes No

8. Field Data (circle) ORP pH Specific Conductance Dissolved O₂ Temperature Turbidity
 Other: _____

9. Analytical Methods and Parameters

Method title/SOP name	Method/SOP Identification number	Revision Date	Target Parameters (VOA, SV, Pest/PCB, Metals, etc.)
PCB Aroclors (Field Screening)	EIA-FLDPCB2.SOP		PCBs
PCB Aroclors	SOM01.2 or DAS Equivalent		PCBs
PCB Congeners	CBC01.0		PCB Congeners

10. Validation Criteria (circle one) 1. Region I EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, Part II, III or IV
 2. Other Approved Validation Criteria: _____
 Validation Tier (circle one) I II III Partial Tier III: _____
 Company/Organization Performing Data Validation Weston Solutions, Inc./START III Prime or Subcontractor (circle one)

11. Company Name Weston Solutions, Inc. Contract Number EP-W-05-042
 Contract Name (e.g. START, RACS, etc.) START III Work Assignment No. 20114-081-998-0850
 Person Completing Form/Title G. Hornok/Lead Project Scientist Date of DQO Summary Form Completion 11 January 2013

When multiple matrices will be sampled during a sampling event, complete Sections 5-10 for each matrix.

Matrix Code¹ GW

5. Data Use (circle all that apply) Site Investigation/Assessment PRP Determination
 Nature and Extent of Contamination Human and/or Ecological Risk Assessment Removal Actions
 Engineering Design Remedial Action
 Post-Remedial Action (quarterly monitoring) Other: _____

Draft DQO Summary Form 11/96

6. Summarize DQOs: Collect ground water samples from ground water monitoring wells previously installed on and off the property for PCB Aroclors fixed based laboratory analysis. A subset of samples will be submitted for PCB Congener analysis.

Complete Table if applicable

COCs	Action Levels	Analytical Method-Quantitation Limits
PCB Aroclors (Fixed Lab)	Above Background (Assumed to be ND)	1.0 µg/L
PCB Congeners	Above Background (Assumed to be ND)	100 to 1,000 pg/L

7. Sampling Method (circle technique) Bailer Low flow pump (Region I method: Yes No) Peristaltic Pump
Positive Displacement Pump Faucet or Spigot
Split Spoon Dredge Trowel Other: _____
 Sampling Procedures (SOP name, No., Rev. #, and date) _____
 List Background Sample Locations Ground Water monitoring wells TBD
 Circle: Grab or Composite _____
 "Hot spots" sampled: Yes No

8. Field Data (circle) ORP pH Specific Conductance Dissolved O₂ Temperature Turbidity
 Other: _____

9. Analytical Methods and Parameters

Method title/SOP name	Method/SOP Identification number	Revision Date	Target Parameters (VOA, SV, Pest/PCB, Metals, etc.)
PCB Aroclors	SOM01.2 or DAS Equivalent		PCBs
PCB Congeners	CBC01.0		PCB Congeners

10. Validation Criteria (circle one) 1. Region I EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, Part II, III or IV
 2. Other Approved Validation Criteria: _____
 Validation Tier (circle one) I II III Partial Tier III: _____
 Company/Organization Performing Data Validation Weston Solutions, Inc./START III Prime or Subcontractor (circle one)

11. Company Name Weston Solutions, Inc. Contract Number EP-W-05-042
 Contract Name (e.g. START, RACS, etc.) START III Work Assignment No. 20114-081-998-0850
 Person Completing Form/Title G. Hornok/Lead Project Scientist Date of DQO Summary Form Completion 11 January 2013

When multiple matrices will be sampled during a sampling event, complete Sections 5-10 for each matrix.

Matrix Code¹ SD

5. Data Use (circle all that apply) Site Investigation/Assessment PRP Determination
 Nature and Extent of Contamination Human and/or Ecological Risk Assessment Removal Actions
 Engineering Design Remedial Action Remediation Alternatives
 Post-Remedial Action (quarterly monitoring) Other: _____

Draft DQO Summary Form 11/96

6. Summarize DQOs: Collect sediment samples from a wetland located west of Park Street for PCB Aroclors field screening and fixed based laboratory analysis. A subset of samples will be submitted for fixed laboratory analysis with a smaller subset submitted for PCB Congener analysis.

Complete Table if applicable

COCs	Action Levels	Analytical Method-Quantitation Limits
PCB Aroclors (Field Screening)	Above Background (Assumed to be ND)	0.2 mg/Kg
PCB Aroclors (Fixed Lab)	Above Background (Assumed to be ND)	33 ug/kg
PCB Congeners	Above Background (Assumed to be ND)	20 to 100 ng/Kg

7. Sampling Method (circle technique) Bailer Low flow pump (Region I method: Yes No) Peristaltic Pump
 Positive Displacement Pump Faucet or Spigot Other: _____
 Split Spoon Dredge Trowel Other: Direct sampling
 Sampling Procedures (SOP name, No., Rev. #, and date) _____
 List Background Sample Locations Wetland area northeast of the Jard Company Inc property
 Circle: Grab or Composite _____
 "Hot spots" sampled: Yes No

8. Field Data (circle) ORP pH Specific Conductance Dissolved O₂ Temperature Turbidity
 Other: _____

9. Analytical Methods and Parameters

Method title/SOP name	Method/SOP Identification number	Revision Date	Target Parameters (VOA, SV, Pest/PCB, Metals, etc.)
PCB Aroclors (Field Screening)	SOM01.2		PCBs
PCB Aroclors	SOM01.2 or DAS Equivalent		PCBs
Total Metals (including Hg)	CBC01.0		PCB Congeners

10. Validation Criteria (circle one) 1. Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, Part II, III or IV
 2. Other Approved Validation Criteria: _____
 Validation Tier (circle one) I II III Partial Tier III: _____
 Company/Organization Performing Data Validation Weston Solutions, Inc./START III Prime or Subcontractor (circle one)

11. Company Name Weston Solutions, Inc. Contract Number EP-W-05-042
 Contract Name (e.g. START, RACS, etc.) START III Work Assignment No. 20114-081-998-0850
 Person Completing Form/Title G. Hornok/Lead Project Scientist Date of DQO Summary Form Completion 11 January 2013

When multiple matrices will be sampled during a sampling event, complete Sections 5-10 for each matrix.

Matrix Code¹ SS

5. Data Use (circle all that apply) Site Investigation/Assessment PRP Determination
 Nature and Extent of Contamination Human and/or Ecological Risk Assessment Removal Actions
 Engineering Design Remedial Action
 Post-Remedial Action (quarterly monitoring) Other: _____

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6. Summarize DQOs: Collect surface soil samples from residential properties downgradient of the Jard Company Inc property and within 200 feet of the residences for PCB Aroclors field screening and fixed based laboratory analysis in source areas on the Jard Company Inc property. A subset of samples will be submitted for fixed laboratory analysis with a smaller subset submitted for PCB Congener analysis.

Complete Table if applicable

COCs	Action Levels	Analytical Method-Quantitation Limits
PCB Aroclors (Field Screening)	Above Background (Assumed to be ND)	0.2 mg/Kg
PCB Aroclors (Fixed Lab)	Above Background (Assumed to be ND)	33 ug/kg
PCB Congeners	Above Background (Assumed to be ND)	20 to 100 ng/Kg

7. Sampling Method (circle technique) Bailer Low flow pump (Region I method: Yes No) Peristaltic Pump
 Positive Displacement Pump Faucet or Spigot Other: _____
 Split Spoon Dredge Trowel Other: Direct sampling
- Sampling Procedures (SOP name, No., Rev. #, and date) _____
 List Background Sample Locations Residential properties located north of the Jard Company Inc property
 Circle Grab or Composite Yes No
 "Hot spots" sampled: Yes No

8. Field Data (circle) ORP pH Specific Conductance Dissolved O₂ Temperature Turbidity
 Other: _____

9. Analytical Methods and Parameters

Method title/SOP name	Method/SOP Identification number	Revision Date	Target Parameters (VOA, SV, Pest/PCB, Metals, etc.)
PCB Aroclors (Field Screening)	SOM01.2		PCBs
PCB Aroclors	SOM01.2 or DAS Equivalent		PCBs
Total Metals (including Hg)	CBC01.0		PCB Congeners

10. Validation Criteria (circle one) 1. Region I EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, Part II, III or IV
 2. Other Approved Validation Criteria: _____
 Validation Tier (circle one) I II III Partial Tier III: _____
 Company/Organization Performing Data Validation Weston Solutions, Inc./START III Prime or Subcontractor (circle one)

11. Company Name Weston Solutions, Inc. Contract Number EP-W-05-042
 Contract Name (e.g. START, RACS, etc.) START III Work Assignment No. 20114-081-998-0850
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Matrix Codes¹ - Refer to Attachment B, Part I
 Parameter Codes² - Refer to Attachment B, Part II

Preservation Codes³

1. HCl to pH ≤ 2
 2. HNO₃
 3. NaHSO₄
 4. H₂SO₄
 5. Cool @ 4°C (± 2°)
 6. NaOH

7. K₂Cr₂O₇
 8. Freeze
 9. Room Temperature (avoid excessive heat)
 10. Other (Specify)
 N. Not preserved

* - To supplement Matrix Codes and/or Parameter Codes contact the QA Unit